

Sepehr Dehdashtian

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Education

Michigan State University | Ph.D. in Computer Science Jun. 2022 – Present

- **Focus:** Responsible AI, Generative AI, Multimodal Models, Computer Vision
- **GPA:** 4.0/4.0

Sharif University of Technology | M.Sc. in Electrical Engineering Sep. 2018 – Feb. 2021

- **Thesis:** Blind Recognition of Channel Codes Using Deep Neural Networks
- **GPA:** 3.87/4.0

Shahid Chamran University of Ahvaz | B.Sc. in Electrical Engineering Sep. 2014 – Aug. 2018

- **GPA:** 3.93/4.0 (ranked 1st)

Publications

OASIS Uncovers: High-Quality T2I Models, Same Old Stereotypes 2024

[Sepehr Dehdashtian](#), Gautam Sreekumar, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2025

Fairness and Bias Mitigation in Computer Vision: A Survey 2024

[Sepehr Dehdashtian](#)*, Ruozhen He*, Yi Li, Guha Balakrishnan, Nuno Vasconcelos, Vicente Ordonez, Vishnu Naresh Boddeti

IEEE Transaction on Pattern Analysis and Machine Intelligence (TPAMI) (Under Review)

The Dark Side of Dataset Scaling: Evaluating Racial Classification in Multimodal Models 2024

Abeba Birhane*, [Sepehr Dehdashtian](#)*, Vinay Prabhu, Vishnu Naresh Boddeti

ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2024

Utility-Fairness Trade-Offs and How to Find Them 2024

[Sepehr Dehdashtian](#), Bashir Sadeghi, Vishnu Naresh Boddeti

IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2024

FairerCLIP: Debiasing CLIP's Zero-Shot Predictions using Functions in RKHSs 2024

[Sepehr Dehdashtian](#)*, Lan Wang*, Vishnu Naresh Boddeti

International Conference on Learning Representations (ICLR) 2024

On characterizing the trade-off in invariant representation learning 2022

Bashir Sadeghi, [Sepehr Dehdashtian](#), Vishnu Naresh Boddeti

Transactions on Machine Learning Research (TMLR)

Deep-Learning Based Blind Recognition of Channel Code Parameters over Candidate Sets under AWGN and Multi-Path Fading Conditions 2021

[Sepehr Dehdashtian](#), Matin Hashemi, Saber Salehkaleybar

IEEE Wireless Communications Letters

Professional Experience

Research Intern at Reality Defender (Mentor: Dr. Jacob Seidman) Dec. 2024 – Present

- Conducted research to identify and analyze failure modes in audio, image, and video classifiers.

Research Assistant at Michigan State University Jun. 2022 – Present

- Developed algorithms to make computer vision, multimodal, and generative models debiased.
- Published papers in top computer vision and machine learning conferences: ICLR'24, CVPR'24.

Research Assistant at Sharif University of Technology Nov. 2018 – Feb. 2021

- Developed deep learning based methods for blind recognition of channel codes.
- Published a research paper in IEEE Wireless Communication Letters.

Awards & Honors

- STEAMpower Fellowship 2024
- TMLR Outstanding Paper Award Runner-Up and TMLR Featured Certification Award 2023
- Ranked 2nd GPA the graduating class of 2021 | Sharif University of Technology 2021
- Ranked 5th out of 30,000 | Iranian University Entrance Exam for Master's degree 2018
- Ranked 1st GPA the graduating class of 2018 | Shahid Chamran University of Ahvaz 2018

Technical Skills

Languages: Python, C++, CUDA, Verilog, VHDL

ML Frameworks: PyTorch, PyTorch-Lightning, TensorFlow, Keras, OpenCV, Scikit-Learn

Others: RevealJS, Git, MATLAB, FPGA

Projects

- Mitigating Political Bias in Pre-Trained Large Language Models 2023
- Visually Explaining Fair Representation Learning—A Model Perspective 2023
- Video Synopsis using OpenCV in Python 2019

Services and Activities

- Mentored Student: Yilin Zheng (Master Student at MSU) Jan. 2024 – present
- Scientific-Students Associations of Clean Energy | Deputy Secretary 2016
- Scientific-Students Associations of EE Department | Member 2015